

Message Text

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ACTION OES-07

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FM AMEMBASSY TOKYO
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FOR OES/APT/SA; INR/OIL

DEPT. PASS TO DEPT OF COMMERCE

E.O. 11652: N/A
TAGS: TECH, EQIP, JA
SUBJECT: NIPPON TELEPHONE AND TELEGRAPH'S FY1978
RESEARCH AND DEVELOPMENT PROJECTS

REF: TOKYO 2305

1. EMBASSY HAS CONTACTED NIPPON TELEPHONE AND TELEGRAPH
TO VERIFY ITS FY1978 RESEARCH AND DEVELOPMENT PLANS
WHICH HAVE BEEN REPORTED IN PRESS. THREE MOST IMPORTANT
R&D THEMES ARE CONSIDERED TO BE VERY LARGE-SCALE
INTEGRATIONS (VLSI), FIBER-OPTIC CABLE COMMUNICATIONS, AND
DIGITAL DATA CHANGE (DDX) NETWORKS. R&D BUDGET IS YEN
62 BILLION (\$296 MILLION AT PRESENT CONVERSION RATE).
TOTAL NUMBER OF PROJECTS IS 804, UP 63 FROM FY1977.

2. NTT CONSIDERS THE FOLLOWING 18 RESEARCH THEMES TO BE
OF HIGH PRIORITY: A) HIGHLY-IMPROVED ELECTRONIC EXCHANGE
SYSTEM; B&,>DIGITAL TELEPHONE NETWORK; C) FIBER-OPTIC
CABLE TRANSMISSION SYSTEM, D) DIPS-11 (ELEVEN) ULTRA-
LARGE COMPUTER; E) DATA COMMUNICATIONS SOFTWARE; F) DATA
COMMUNICATOGNS NETWORK ARCHITECTURE; G) NEW TELEPHONE
SERVICE EXCHANGES; H) TELEPHONES SPECIALLY DESIGNED FOR
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THE HARD-OF-HEARING; I) TELEPHONES FOR AUTOMOBILE USE;
J) DIGITAL DATA EXCHANGE (DDX) NETWORKS; K) PROGRAM
CONTROLLED OFFICE TERMINAL EQUIPMENT FOR DATA COMMUNICA-
TION; L) NEW FACSIMILE SYSTEM; M) VIDEO RESPONSE SYSTEM;
N) SATELLITE COMMUNICATIONS SYSTEM; O) TRAFFIC CONTROL
SYSTEM; P) CENTRAL CONTROL SYSTEM FOR TUNNELS; Q)
IMPROVEMENT IN TELEPHONE SIGNAL QUALITY; R) VLSI.

3. NTT'S GOAL IN THE VLSI FIELD IS TO DEVELOP A MASS PRODUCTION METHOD FOR ITS 64 K-BIT VLSI AND TO APPLY IT TO COMMUNICATIONS EQUIPMENT. NTT IS NOW TESTING A 20-KILOMETER FIBER-OPTIC CABLE IN TOKYO. IN FY78, IT HOPES TO LAY FIBER-OPTIC CABLES ON THE SEABED OR TO USE THEM IN CONNECTING COMPUTERS. NTT ALSO PLANS TO INCREASE THE COST PERFORMANCE OF ITS DIPS-11 COMPUTER SERIES (REFTEL). IT WILL START MANUFACTURING DATA FILE CONTROLLING AND PROCESSING EQUIPMENT WHICH WILL ALSO BE APPLICABLE TO MEDIUM-SIZED DIPS-10 COMPUTERS.

MANSFIELD

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